

Application #09/646,640
Amendment dated March 30, 2006

Amendments to the claims:

- 1 1. (previously cancelled)
- 2 2. (previously cancelled)
- 3 3. (previously cancelled)
- 4 4. (previously cancelled)
- 5 5. (previously cancelled)
- 6 6. (previously cancelled)
- 7 7. (previously cancelled)
- 8 8. (previously cancelled)
- 9 9. (previously cancelled)

- 1 10. (previously presented) Data protection method for operating a
- 2 microprocessor of a chip card to protect data elements contained in
- 3 a memory of a chip card from discovery by analysis of electrical
- 4 power consumption by the microprocessor, said method using a
- 5 cryptographic algorithm for executing operations for processing
- 6 said data elements so as to generate encrypted information, said
- 7 method comprising:
- 8 operating the microprocessor to randomly modifying the
- 9 order of execution of operations involving
- 10 manipulations of data elements contained in the
- 11 memory from one cycle to another, a cycle being a
- 12 complete execution cycle of the algorithm or an
- 13 intermediate cycle of a group of operations, said
- 14 operations being operations whose order of execution
- 15 relative to the others does not affect the result,
- 16 thereby protecting said data elements contained in
- 17 said memory and processed by a microprocessor in a

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- 18 chip card from discovery by analysis of the
19 microprocessor's electric power consumption.
- 1 11. (previously presented) The protection method according to claim
2 10, wherein the modified order of execution of operations include
3 permutation of bits of a message block which is performed after the
4 permutation of bits of a key, and vice versa.
- 1 12. (previously presented) The protection method according to claim
2 10, wherein the modified order of execution of operations include a
3 random determination of the processing of quartets.
- 1 13. (previously cancelled)
- 2 14. (cancelled)
- 1 15. (cancelled)
- 1 16. (previously presented) The data protection method of Claim 10
2 wherein said data elements are keys.
- 1 17. (cancelled)